

GUCBIR GENERATOR

GJB13000E / GJB13000E-3 USER MANUAL

Congratulation and thank you for your purchase our products; our aim is to provide a high-quality generator set to achieve customer satisfaction, and we are confident that your choice will be justified.

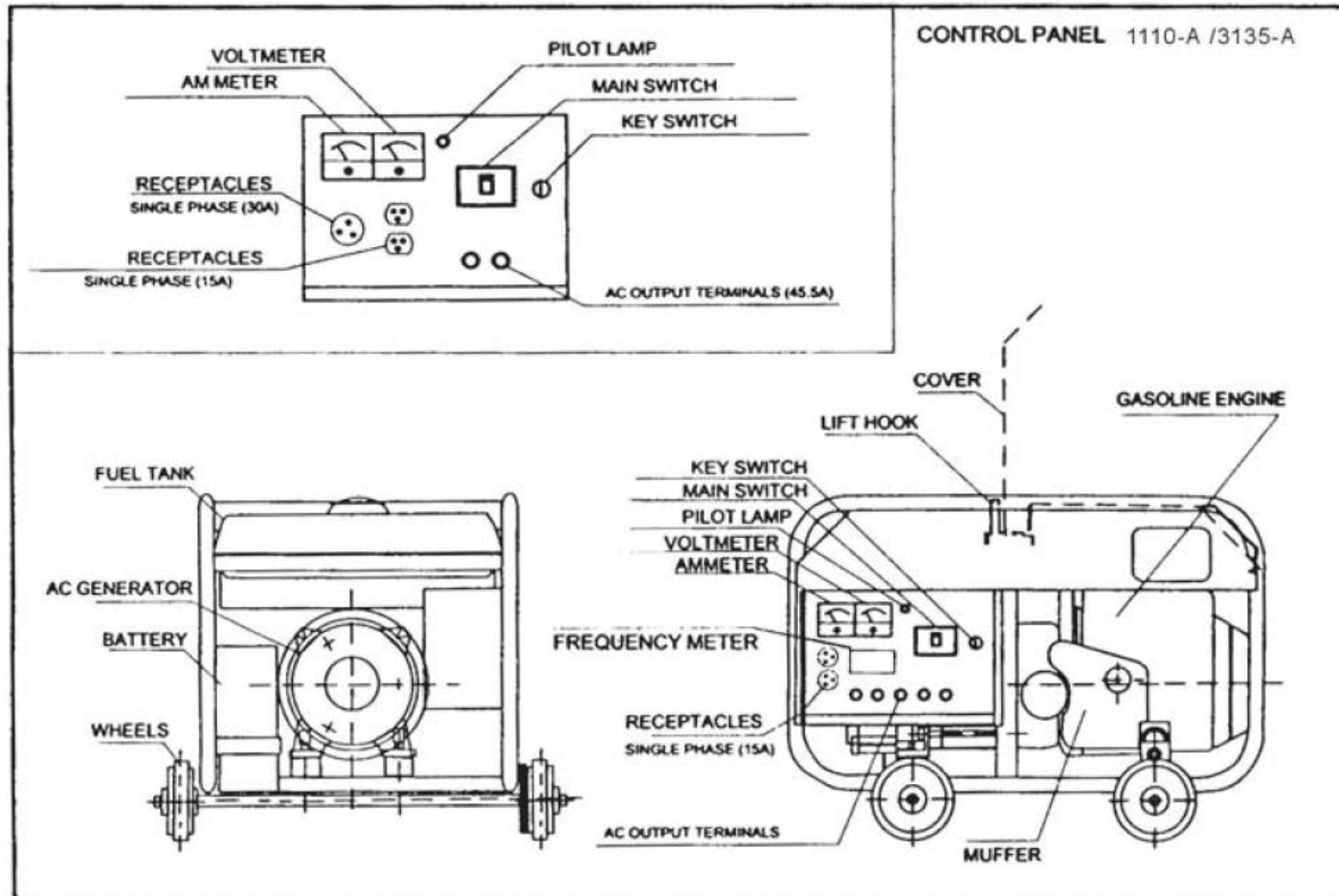
This manual, dealing with the generator side of the unit, gives all the basic information to ensure satisfactory and reliable operation of your.

Please use this manual as a companion to the other manual covering the engine side.

Caution

1. Use SAE 10W-30 Lubrication oil. After the first oil change at 10 hours operation, change it every 50 hours.
2. Do not connect the generator output to commercial AC outlets.
3. For information about the engine operation and maintenance, please see [IMC or HONDA engines Owner's Manual]

INAMES OF IMPORTANT PARTS AND COMPONENTS



SPECIFICATIONS

MODEL				11000	11000S	13000	13000S
GENERATOR	AC Output	50 Hz	Prime	8.5KW	8.5KW	10.5KW	10.5KW
			Standby	10.5KW	10.5KW	11.5KW	11.5KW
		60 Hz	Prime	10.0KW	10.0KW	12.0KW	12.0KW
			Standby	11.0KW	11.0KW	13.0KW	13.0KW
	Rated Speed			3000rpm(50Hz)/3600rpm(60Hz)			
	Phase			Single Two line(4)	Three Four line	Single Two line(4)	Three Four line
	Power Factor			1.0	0.8	1.0	0.8
	Excitation System			Self-Excitation System			
	Pole			2			
	Drive System			Directly Coupled to the Engine			
	Voltages			110/220	220/380	110/220	220/380
	Voltages Regulation			±1.5% at rated rpm			

MODEL			GX620		GX670	
ENGINE	Output	Prime	16.0hp/3000rpm,18.0hp/3600pm		18.0hp/3000rpm,20.0hp/3600rpm	
		Standby	18.0hp/3000rpm,20.0hp/3600pm		20.0hp/3000rpm,22.0hp/3600rpm	
	Type		4-stroke,overhead valve,2 cylinders(90 ⁰ v-Twin)			
	Cylinder Volume		614cc			627cc
	NO.of Cylinder		2			
	Starting System		Electric(Recoil)			
	Fuel Consumption		3.5L/hour (at full load)		3.7L/hour (at full load)	
	Fuel Tank Capacity		26		26	
	Noise level(7m/dB)		72/50Hz, 78/60Hz		71/50Hz, 77/60Hz	
Net Weight(with Wheels)			151(160)kg	157(166)kg	153(162)kg	155(160)kg
Dimensions(with wheels)			950×620×800			

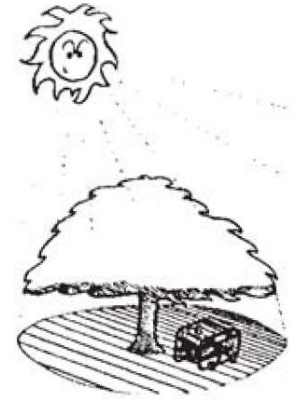
*Option-Voltage

II PREPARATORY STEPS FOR OPERATION

1. ENVIRONMENTAL REQUIREMENTS

1-1. Outdoor use

A) Install your gasoline generator unit in a dry and dustless place.



B) Avoid the direct sunshine. Place your IMC G.G.unit in the shade.

C) Keep your gasoline generator unit on a level ground so that the unit will not move by itself. For safety, fix the unit on the ground by pegging.



1-2. Indoor use

A) Use in well-ventilated areas, or vent exhaust outside and away from any building air intakes. A large volume of air is required for the operation.

B) Keep the air inlet/outlet and the exhaust gas outlet 1.5m away from any obstacle.

C) Use under 40 degrees temperature.

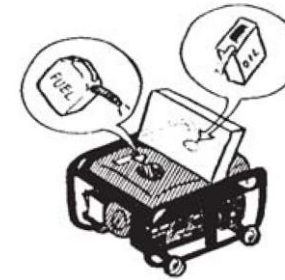
D) Install your IMC G.G. unit on a level surface.



2. PREPARATION FOR THE ENGINE

A) Check level of fuel gasoline, Lubrication OIL.

Add any of those fluids if it is below the sufficient level specified in the Engine Owner's Manual.

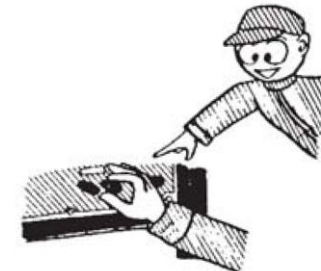


B) Check all major bolts and nuts on the engine.

Tighten any loose bolts and nuts.

3. ELECTRICAL CONNECTION WITH LOAD

A) Make sure that the load does not exceed the power Capacity of gasoline generator Connect electrical Connections properly.



III SAFETY PRECATIONS FOR SERVICING

- A. Only qualified persons should test, maintain, and repair this unit.
- B. Always wear a face shield, rubber gloves and protective Clothing when working on the unit.
- C. Do not touch the generator unit or any part of load with your bare hands or wet hands.
- D. Keep hands, hair, loose clothing, and tools away from moving parts such as fans, belts and rotors.



E. Do not breathe exhaust fumes.

F. Stop engine and let it cool off before checking or adding fuel.

G. Do not add fuel while smoking or if unit is near any sparks or open flames.

H. Observe correct polarity (+ & -) on batteries.

I. Do not tip battery.

J. Use equipment of adequate capacity to lift and support unit and components.



IV WARM-UP PROCEDURE

A. Check all fluids daily(The unit is shipped without lub. oil).

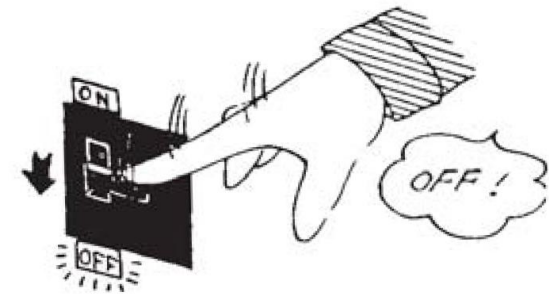
B. Turn the fuel cock to [ON] position.

C. Set the main switch to [OFF].

D. Pull out the choke lever.

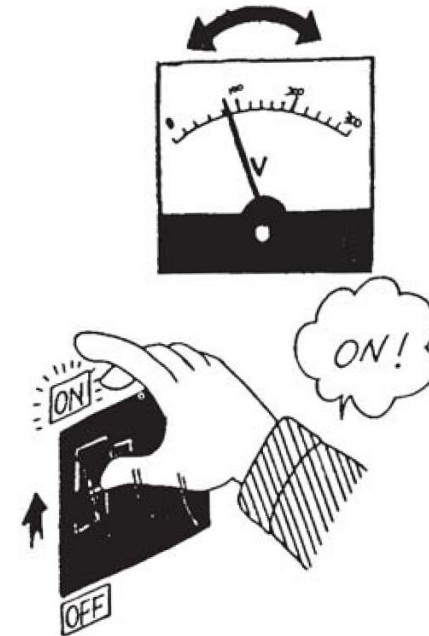
E. Turn the engine start key to [START] position.

F. Warm-up time is about 3–5minutes.



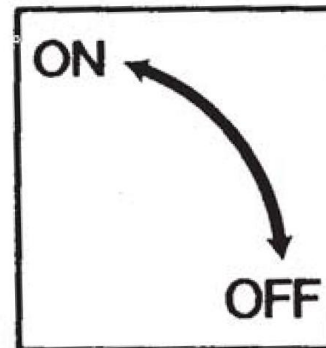
V STARTING – UP PROCEDURE

- A. Return speed control lever to left position.
- B. Ensure voltmeter indicates normal.
(Single phase 220V)(Three phase 380V)
- C. Set the main switch to [NO].
- D. Observe the voltage is in the normal loaded range.



VI STOP PROCEDURE

- A. Set the main switch to [OFF]
- B. Turn the engine start key to [STOP] position.
- C. Close the fuel cock if the unit is in storage or transportation.



VII SIMPLIFIED TROUBLESHOOTING GUIDE

This guide is intended to give a brief information for troubleshooting with no testing or measuring instruments to check the unit.

However, testing and measuring instruments are required to diagnose parts and components in many trouble cases.

If you cannot determine the cause by visual inspection, you should consult your dealer whom you purchased this unit from.

VIII Malfunctions and countermeasures

Single – phase/ Three – phase

Complaint	Possible cause	Remedy
No power or insufficient power	<ol style="list-style-type: none"> 1. Engine speed too low 2. Rotor diode breakage 3. Rotor wiring breakage 4. Stator wiring breakage 5. Main switch breakage 6. AVR failure 	<ol style="list-style-type: none"> 1. Speed up engine until rated voltage is reached 2. Replace diode 3. Repair or replace 4. Repair or replace 5. Replace switch 6. Replace AVR
Power is available but falls upon loading	<ol style="list-style-type: none"> 1. Engine speed too low 2. Too long a line is used between generator and load 3. The load is too large 	<ol style="list-style-type: none"> 1. Speed up engine until rated voltage is reached 2. Relocate the G.G. unit as close as possible to the load 3. Reduce the load to and below the capacity limit of the G.G. unit
Loading trips off the main switch instantly	<ol style="list-style-type: none"> 1. Overloading 2. Fault on the load side 	<ol style="list-style-type: none"> 1. Reduce the load 2. Check to locate the faulted circuit and repair
Pilot lamp stays off	Bulb failure	Replace
Noise from bearing	Bearing worn out	Replace bearing
Voltmeter does not function	Voltmeter failure	Replace voltmeter
Ammeter does not function	Ammeter failure	Replace Ammeter

